

C5. CHAPTER 5

GASOHOL

C5.1. GENERAL. This chapter replaces Defense Energy Policy Program Memorandum (DEPPM) 88-5, "Gasohol Acquisition, Handling and Use," October 13, 1988. Further, this chapter provides guidelines for the acquisition of gasohol for use in the Department of Defense (DoD)-owned and leased motor vehicles.

C5.2. POLICY. DoD's policy regarding gasohol is as follows:

C5.2.1. Gasohol procured by DoD is interchangeable and compatible with unleaded gasoline for use in all DoD-owned or leased motor vehicles with spark ignition engines and other equipment designed to consume gasoline under all climatic conditions in the United States.

C5.2.2. Whenever any motor vehicle capable of operating on unleaded gasoline that is owned or operated by DoD is refueled under the PC&S Program or other local procurement authority, the following guidelines shall apply:

C5.2.2.1. In carbon monoxide control areas or ozone nonattainment areas requiring the use of oxygenated or reformulated gasoline, respectively, it shall be refueled with oxygenated or reformulated gasoline that is available in and complies with applicable environmental regulations of that area.

C5.2.2.2. In all other geographical areas, it shall be refueled with unleaded gasohol if available at the same price as or lower than the unleaded gasoline. Depending on local environmental requirements, gasohol may or may not be considered an oxygenated gasoline under the "Clean Air Act," Sections 7401-7671 of title 42 of the United States Code. Therefore, exemptions may be granted to the use of gasohol as stated in section C5.4., below, with the exception of those carbon monoxide control areas requiring the use of oxygenated gasoline where gasohol complies with local environmental requirements as an oxygenated gasoline and is the only oxygenated gasoline offered for use in that control area.

C5.2.3. This policy implements the following Executive Orders:

C5.2.3.1. Section 1-105 of Executive Order 12261, which requires DoD, to the maximum extent feasible and consistent with overall defense needs and vehicle management practices, to make contract to purchase gasohol for use in motor vehicles DoD owns or operates.

C5.2.3.2. Section 10 of Executive Order 12759 which requires DoD and Federal Agencies to reduce use of motor vehicle gasoline and diesel fuel by at least 10 percent by fiscal year (FY) 1995 in comparison with FY 1991. Section 10 of Executive Order 12759 and the Federal Property Management Regulation (FPMR) Temporary Regulation G-56 encourages the use of blended gasoline (including gasohol) in achieving this goal.

C5.3. RESPONSIBILITIES

C5.3.1. The Defense Energy Support Center (DESC) shall:

C5.3.1.1. Follow the practice explained in this chapter for Federal Agencies as well as DoD Components in the procurement of gasohol under the Bulk and Posts Camps and Stations (PC&S) programs.

C5.3.1.2. Require reporting activities to include in their submissions of gasoline requirements the extent to which oxygenated or reformulated gasoline requirements apply to their particular activity for the **performance period**. Further, reporting activities shall be required to advise DESC of changes in product specification(s) requirements.

C5.3.1.3. Assume that operational activities, reporting a requirement for gasoline under the PC&S Program, are located in the following areas:

C5.3.1.3.1. Carbon monoxide control areas and ozone nonattainment areas requiring the use of oxygenated or reformulated gasoline, respectively, can store and use these products in compliance with seasonal environmental regulations of the geographical areas in which the activities are located.

C5.3.1.3.2. All other areas, can store and use gasohol unless an activity submits an appropriate request for exception to its use. Absent the appropriate exception request, described in section C18.4., below, automatically solicit a gasoline requirement for such reporting activity as "either unleaded gasoline or unleaded gasohol." Each exception request shall be reviewed to ensure submissions have cited authorized exemptions, and justifications have been submitted in the proper form and include all required information.

C5.3.1.4. Maintain an automated system to track responses for exception to the use of gasohol by reporting activities located in those areas included under subparagraph C5.3.1.3.2., above.

C5.3.1.5. Supply unleaded gasohol in areas included under subparagraph C5.3.1.3.2., above, against a gasoline requirement when gasohol is available at the same price as or a lower price than the gasoline. The standard stock fund price for gasohol will be determined in accordance with DoD 7420.14-R.

C5.3.1.6. Inform potential suppliers, in marketing areas located in areas included in subparagraph C5.3.1.3.2., above, and where the commercial fuel distribution system is adequate to promote competition, of the Federal Government's gasohol requirements. For example, in addition to inclusion of regular notices of solicitation in the Commerce Business Daily, request national and regional fuel marketing associations to include a notice of the Government's gasoline requirements, for which gasohol will be an acceptable substitute, in membership newsletters.

C5.3.2. DoD Components shall:

C5.3.2.1. Ensure that reporting activities submit gasoline requirements as required by DESC. Due to the nature of the PC&S Program, activities should be prepared to receive no more than a 30 to 60-

day notice before commencement of the scheduled fuel delivery period. The final award may change or be delayed for various reasons at any time prior to the beginning of the delivery period. Therefore, all reporting activities must be aware of these possibilities and be prepared to respond accordingly (i.e., by having fuel-handling facilities ready to accommodate the delivery of oxygenated or reformulated gasoline or gasohol in lieu of conventional gasoline).

C5.3.2.2. Ensure that requests, if any, for exception to the use of gasohol under the PC&S Program are made in writing, on a line item basis, by reporting activities at the time their gasoline requirements are submitted to DESC. For approval, requests for exception to the use of gasohol must be in accordance with the exception criteria in section C5.4., below.

C5.3.2.3. Ensure that activities are in compliance with local purchase guidance provided in chapter 2, volume II, of this manual and that gasoline requirements shall be satisfied by purchasing the following products:

C5.3.2.3.1. Oxygenated or reformulated gasoline for use in carbon monoxide control areas or ozone nonattainment areas requiring the use of oxygenated or reformulated gasoline, respectively, complying with applicable environmental regulations of such areas;

C5.3.2.3.2. Gasohol in carbon monoxide control areas when gasohol meets the oxygenated gasoline requirements referred to in subparagraph C5.3.2.3.1., above, if available at the same price as or lower than the oxygenated gasoline; and

C5.3.2.3.3. Gasohol in all other areas if available at the same price as or lower than the unleaded gasoline.

C5.3.2.4. Ensure that exceptions employed by activities to the local purchase of gasohol are in accordance with the exception criteria in section C5.4., below.

C5.3.2.5. In accordance with section 1-102 of Executive Order 12261, when supplies of gasohol are not available, have the option to authorize activities to purchase a minimum of 197-proof anhydrous ethyl alcohol, conforming to ASTM Specification D4806, for on-site blending of alcohol. Blending of gasohol by activities should be authorized only if the following conditions are met:

C5.3.2.5.1. The combined costs are comparable to unleaded gasoline costs;

C5.3.2.5.2. Appropriate blending and storage facilities are available;

C5.3.2.5.3. The necessary safety hazards involved with the blending of fuels are considered, such as those identified in chapter 5 of MIL-HDBK-114; and

C5.3.2.5.4. The necessary quality surveillance measures are taken, such as those identified in chapter 3 of MIL-STD-3004.

C5.3.2.6. Instruct civilian employees and Military Service members that whenever any DoD-owned or leased administrative motor vehicle is refueled, it shall be refueled with the following:

C5.3.2.6.1. Oxygenated or reformulated gasoline in carbon monoxide control areas or ozone nonattainment areas requiring the use of oxygenated or reformulated gasoline, respectively, complying with applicable environmental regulations of those areas;

C5.3.2.6.2. Gasohol in carbon monoxide control areas when gasohol meets the oxygenated gasoline requirements referred to in subparagraph C5.3.2.6.1., above, if available at the same price as or lower than the oxygenated gasoline; and

C5.3.2.6.3 Gasohol in all other areas if available along the normal travel route of the vehicle and if available at a price that is the same as or lower than unleaded gasoline.

C5.3.2.7. Consult with the Petroleum & Water Business Area on all technical matters pertaining to the handling, use, and standardization of ground fuels, including blended gasoline. The address for the Petroleum & Water Business Area is as follows: Petroleum & Water Business Areas, U.S. Army TACOM, Attn: AMSTA-TR-D/210, Warren, MI 48397-5000.

C5.3.3. The U.S. Army Tank-Automotive Research, Development and Engineering Center (TARDEC) shall serve as the lead DoD activity on all technical matters concerning ground fuels, including blended gasoline.

C5.4. EXCEPTION CRITERIA FOR USE OF GASOHOL

C5.4.1. Under the PC&S and local purchase programs:

C5.4.1.1. A request for exception to the use of gasohol must be submitted by a reporting activity in writing, on a line item basis, when the activity's unleaded gasoline requirements are reported to DESC. Blanket waivers, e.g., memoranda describing problems generally associated with the handling or use of gasohol, whether issued by reporting activities, major commands, or headquarters organizations, will not be accepted.

C5.4.1.2. A request for exception to the use of gasohol, not based on the exemptions in subsection C5.4.2., below, shall be considered by DESC, consulting with TARDEC, as needed. Such request shall be approved only if the reporting activity has demonstrated conclusively and certified that acceptance of gasohol for the individual line item requirement would cause either of the following:

C5.4.1.2.1. An adverse mission impact; or

C5.4.1.2.2. A net cost increase to the Government.

C5.4.2. Exception to the use of gasohol may be based on the following:

C5.4.2.1. Exception 1. Fuel support is required for multifueled engines powering a 2 1/2-ton and 5-ton military truck fleet at locations where multifueled engines must be refueled from gasoline tanks

because (1) diesel fuel storage tanks are not available, and (2) performance of these engines is not satisfactory when using gasohol.

C5.4.2.2. Exception 2. Fuel support is required for motor vehicles used in operational or experimental programs to convert to a clean alternative fuel, or to a test fuel, respectively. The exception is valid only for specific storage and dispensing facilities supporting clean alternative fuel operations or fuel testing. Requests for exception must indicate facilities involved and the duration of the operational or experimental program.

C5.4.2.3. Exception 3. Fuel support is required for a partial fleet of the excepted motor vehicles described in paragraphs C5.4.2.1. and C5.4.2.2., above, and the petroleum product supply system is not able to maintain two grades of product separately consistent with sound motor vehicle management practices.

C5.4.2.4. Exception 4. The only available storage tanks for gasoline contain water bottoms from which the water cannot be drawn off, to preclude alcohol/gasoline phase separation, only until such tanks have been replaced or modified to permit water removal. Requests for exception must indicate the date by which such problems will be corrected.

C5.4.2.5. Exception 5. The only available storage tanks for gasoline are coated internally with sealant resin systems that are incompatible with alcohol or gasoline-alcohol blends. Requests for exception must indicate when the tanks are scheduled to undergo inspection and repair. When the interior surfaces of gasoline storage tanks are treated, only coating systems having a demonstrated compatibility with gasoline and gasoline-alcohol blends are to be used.

C5.4.2.6. Exception 6. Carbon monoxide control or ozone nonattainment areas requiring the use of oxygenated or reformulated gasoline, respectively, where gasohol is not considered an oxygenated or reformulated gasoline under the Clean Air Act.